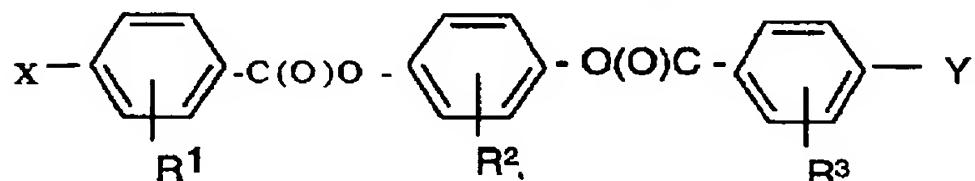


**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 1.-185. (Cancelled).

1 186. (Currently amended) Mesogens having the following formula:



5 wherein

6 ~~X and Y independently are selected from the group consisting of amino groups, is a~~  
~~polymerizable groups, and combinations thereof, provided that when X is~~  
~~a polymerizable group,~~

7 ~~Y is consists essentially of an amino group;~~

8 R<sup>2</sup> is selected from the group consisting of t-butyl groups, isopropyl groups, and  
~~secondary butyl groups; and~~

9 10 R<sup>1</sup> and R<sup>3</sup> are selected from the group consisting of hydrogen and a methyl group.

1 187. (Previously presented) The mesogens of claim 186 wherein said  
~~2 polymerizable groups have polymerizable unsaturated carbon-carbon bond.~~

1 188. (Previously presented) The mesogens of claim 186 wherein said  
~~2 polymerizable groups are selected from the group consisting of acryloyloxy alkoxy~~  
~~3 groups and methacryloyloxy alkoxy groups having alkyl moiety with from 2 to 12 carbon~~  
~~4 atoms.~~

1 189. (Currently amended) The mesogens of claim 188 wherein said alkyl  
~~2 moiety consists essentially of from 2 to 12 carbon atoms and CH<sub>2</sub> groups optionally are~~  
~~3 substituted by groups selected from the group consisting of oxygen, sulfur, and ester~~  
~~4 groups; provided that from 2 to 12 two or more carbon atoms separate said oxygen from~~  
~~5 said ester groups.~~

1 190. (Previously presented) The mesogens of claim 189 wherein said alkyl  
~~2 moiety consists essentially of a total of from 2 to 9 carbon atoms.~~

1 191. (Previously presented) The mesogens of claim 189 wherein said alkyl

2 moiety consists essentially of a total of from 2 to 6 carbon atoms.

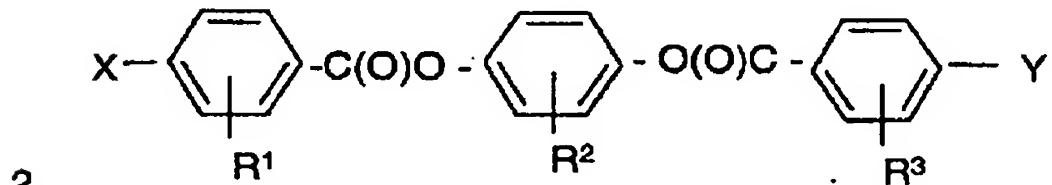
1 192.-195. (Canceled)

1 196. (Previously presented) The mesogens of claim 186 wherein one or more  
2 members selected from the group consisting of X and Y is a cinnamoyloxy group.

1 197. (Previously presented) The mesogens of claim 194 wherein one or more  
2 members selected from the group consisting of X and Y is a cinnamoyloxy group.

1 198. (Previously presented) The mesogens of claim 195 wherein one or more  
2 members selected from the group consisting of X and Y is a cinnamoyloxy group.

1 199. (Previously presented) Mesogens having the following formula:



3 wherein

4 X is a polymerizable group selected from the group consisting of acryloyloxy alkoxy  
5 groups and methacryloyloxy alkoxy groups having alkyl moiety with from 2 to 12  
6 carbon atoms;

7 Y consists essentially of an amino group;

8 R<sup>2</sup> is selected from the group consisting of alkyl groups having from about 1 to 6 carbon  
9 atoms and aryl groups; and

10 R<sup>1</sup> and R<sup>3</sup> are selected from the group consisting of hydrogen and a methyl group.

1 200. (Canceled).

1 201. (Currently amended) The mesogens of claim 199 wherein said alkyl  
2 moiety consists essentially of from 2 to 12 carbon atoms and CH<sub>2</sub> groups optionally are  
3 substituted by groups selected from the group consisting of oxygen, sulfur, and ester  
4 groups; provided that from two~~2~~ to 12 or more carbon atoms separate said oxygen from  
5 said ester groups.

1 202. (Previously presented) The mesogens of claim 201 wherein said alkyl  
2 moiety consists essentially of a total of from 2 to 9 carbon atoms.

1 203. (Previously presented) The mesogens of claim 201 wherein said alkyl  
2 moiety consists essentially of a total of from 2 to 6 carbon atoms.

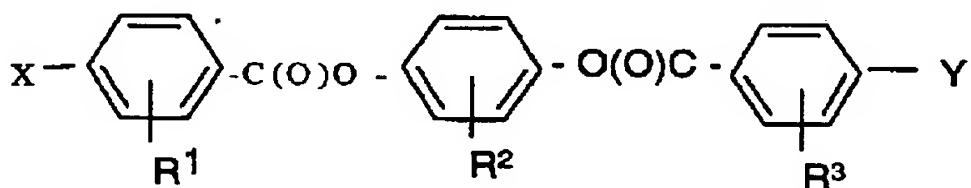
1 204.-207. (Canceled).

SwRI-2835-11

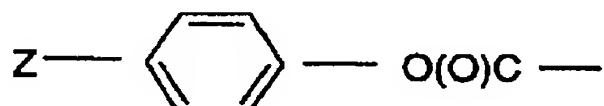
1           208. (Previously presented) The mesogens of claim 204 wherein one or more  
 2   members selected from the group consisting of X and Y is cinnamoyloxy group.

1           208. (Canceled)

1           209. (Currently amended) Mesogens having the following formula:



3           wherein X and Y independently are selected from the group consisting of spacer groups,  
 4   polymerizable groups, and combinations thereof, wherein one or more members  
 5   selected from the group consisting of X and Y have the following structure:



7           wherein Z is selected from the group consisting of spacer groups, terminal  
 8   functionalities, polymerizable groups, and combinations thereof, said spacer  
 9   groups being selected from the group consisting of  $\text{H}-(\text{CH}_2)_n-\text{O}-$  groups,  
 10    $\text{Cl}(\text{CH}_2)_n-\text{O}-$  groups,  $\text{Br}(\text{CH}_2)_n-\text{O}-$  groups,  $\text{I}(\text{CH}_2)_n-\text{O}-$ , wherein n is from about 2  
 11   to about 12 wherein the  $\text{CH}_2$  groups independently can be substituted by oxygen,  
 12   sulfur, or an ester group; provided that at least from 2 to 12 carbon atoms separate  
 13   said oxygen or said ester group;

14    $\text{R}^2$  is selected from the group consisting of alkyl groups having from about 1 to 6 carbon  
 15   atoms and aryl groups; and

16    $\text{R}^1$  and  $\text{R}^3$  are selected from the group consisting of hydrogen and a methyl group.

1           210. (Previously presented) The mesogens of claim 209 wherein X and Y  
 2   further consist essentially of functionalities independently selected from the group  
 3   consisting of hydroxyl groups, amino groups, and sulphydryl groups.

1           211. (Previously presented) The mesogens of claim 210 wherein n is from  
 2   about 2 to 9.

1           212. (Previously presented) The mesogens of claim 210 wherein n is from 2 to  
 2   6.

1           213. (Previously presented) The mesogens of claim 209 wherein said  
2 polymerizable groups have alkyl moiety having polymerizable unsaturated carbon-carbon  
3 bond.

1           214. (Previously presented) The mesogens of claim 210 wherein said  
2 polymerizable groups have alkyl moiety having polymerizable unsaturated carbon-carbon  
3 bond.

1           215. (Previously presented) The mesogens of claim 214 wherein said alkyl  
2 moiety has from 2 to 9 carbon atoms.

1           216. (Previously presented) The mesogens of claim 214 wherein said alkyl  
2 moiety has from 2 to 6 carbon atoms.

1           217. (Previously presented) The mesogens of claim 209 wherein R<sup>2</sup> is selected  
2 from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary  
3 butyl groups, and phenyl groups.

1           218. (Previously presented) The mesogens of claim 210 wherein R<sup>2</sup> is selected  
2 from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary  
3 butyl groups, and phenyl groups.

1           219. (Previously presented) The mesogens of claim 213 wherein R<sup>2</sup> is selected  
2 from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary  
3 butyl groups, and phenyl groups.

1           220. (Previously presented) The mesogens of claim 214 wherein R<sup>2</sup> is selected  
2 from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary  
3 butyl groups, and phenyl groups.

1           221. (Previously presented) The mesogens of claim 216 wherein R<sup>2</sup> is selected  
2 from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary  
3 butyl groups, and phenyl groups.

1           222.-223. (Canceled)

1           224. (Previously presented) The mesogens of claim 220 wherein R and R<sup>3</sup> are  
2 selected from the group consisting of hydrogen and methyl group.

1           225. (Previously presented) The mesogens of claim 221 wherein R and R<sup>3</sup> are  
2 selected from the group consisting of hydrogen and methyl group.

- 1        226. (Previously presented) The mesogens of claim 209 wherein one or more
- 2        members selected from the group consisting of X and Y is cinnamoyloxy group.
- 1        227. (Previously presented) The mesogens of claim 217 wherein one or more
- 2        members selected from the group consisting of X and Y is cinnamoyloxy group.
- 1        228. (Previously presented) The mesogens of claim 221 wherein one or more
- 2        members selected from the group consisting of X and Y is cinnamoyloxy group.